In re Application of:

Worley and Brakeman

Application No.: 09/910,706 Filed: July 20, 2001

Page 5

PATENT Attorney Docket No.: JHU1520-2

## COMPLETE LISTING OF THE CLAIMS

Upon entry of the present amendment, the claims will stand as follows:

- 1-9 (Withdrawn)
- 10. (Previously Amended) A method of selecting a compound that interferes with binding of a synaptic activation protein to a cellular binding protein in the mammalian central nervous system, comprising:

adding a test compound to a reaction mixture containing (i) an isolated synaptic activation protein having at least 70% sequence identity to a polypeptide having the sequence SEQ ID NO: 2, (ii) an isolated binding protein to which the synaptic activation protein binds, and (iii) means for detecting binding between the synaptic activation protein and the binding protein; measuring binding between the synaptic activation protein and the binding protein; and

selecting the compound if the measured binding is greater than or less than binding measured in the absence of the test compound.

- 11. (Previously Amended) The method of claim 10, wherein the binding protein is a metabotropic glutamate receptor (mGluR).
  - 12. (Withdrawn)
- 13. (Currently Amended) The method of claim 1011, wherein the binding protein is a metabotropic glutamate receptor comprising mGluR comprises a sequence selected from the group consisting of SSSL (SEQ ID NO: 10) and SSTL (SEQ ID NO: 11).
- 14. (Currently Amended) The method of claim 1113, wherein the mGluR is selected from mGluR5 and mGluR1α.
- 15. (Currently Amended) The method of claim 10, wherein the synaptic activation protein is a Homer protein <u>having the sequence SEQ ID NO: 2</u>.

In re Application of:

Worley and Brakeman

Application No.: 09/910,706

Filed: July 20, 2001

Page 6

Attorney Docket No.: JHU1520-2

**PATENT** 

- 16. (Currently Amended) The method of claim 10, wherein the synaptic activation protein is in solid phase coated onto a solid phase.
- 17. (Previously Added) The method of claim 16, wherein the solid phase is a microtiter plate.
- 18. (Previously Added) The method of claim 10, wherein the means for detecting binding is a glutathione-S-transferase (GST)-pulldown.
- 19. (Previously Added) The method of claim 10, wherein the means for detecting binding is communoprecipitation.
- 20. (Previously Added) The method of claim 10, wherein the measuring binding comprises labeling the binding protein, wherein the labeling is direct labeling or is subsequent addition of a labeled, binding protein-specific reagent.
- 21. (Previously Added) The method of claim 20, wherein the binding protein-specific reagent is an antibody.
- 22. (Previously Added) The method of claim 20, wherein the labeling comprises use of an enzyme capable of generating a signal, use of a radiolabeled reagent, use of a fluorescent dye, or use of gold or biotin.
- 23. (Currently Amended) The method of claim 22, wherein the radiolabeled reagent is labeled with 125I <sup>125</sup>I.

24-43 (Withdrawn)